

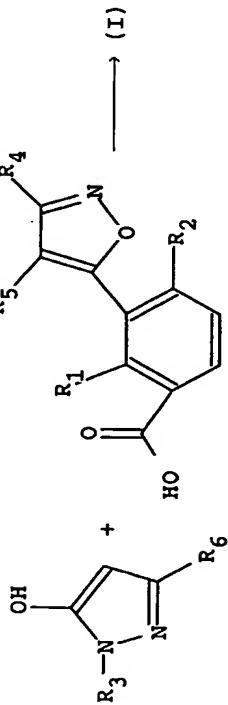
<p>98-041692/04</p> <p>NIPPON SODA CO</p> <p>96.04.26 96IP-131170 (97.11.06) C07D 413/10, A01N 43/56</p> <p>New 1-isoxazol-5-yl, 3-pyrazol-4-yl benzene derivatives are herbicides useful for crop plants e.g. corn or wheat (Jpn)</p> <p>C98-013844 N(AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KR KZ LC LK LR LS LT LU LY MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN R(AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LUMC MW NL OA PT SD SE SZ UG)</p> <p>Addnl. Data: ADACHI H, YAMAGUCHI M, MIYAHARA O, KOGUCHI M, TOMITA K, TAKAHASHI A, KAWANA T</p> <p>97.02.10 97WO-JP0342</p>	<p>NIPS 96-04.26</p> <p>*WO 9741117-A1</p> <p>(I)</p> <p>USE</p> <p>(I) are selective herbicides useful in crop plants such as wheat and</p> <p>WO 9741117-A+</p>
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corn.

SPECIFIC COMPOUNDS

7 Compounds (I) are specifically claimed e.g.
4-[2-chloro-3-(3-methyl-1,2-isoxazol-5-yl)-4-
methylsulphonyl]benzoyl-1-ethyl-5-hydroxy pyrazole;
4-[2,4-dichloro-3-(3-methyl-1,2-isoxazol-5-yl)]benzoyl-1-ethyl-5-
hydroxypyrazole; and
4-[2,4-dichloro-3-(3-methyl-1,2-isoxazol-5-yl)]benzoyl-1,3-dimethyl-5-
hydroxypyrazole.

PREPARATION



EXAMPLE

2-Chloro-4-methanesulphonyl-3-(3-methyl-1,2-isoxazol-5-yl)benzoyl chloride (1.58 g) in CH₂Cl₂ (5 ml) was added dropwise to 1-ethyl-5-hydroxypyrazole HCl (0.7 g) and NEt₃ (0.95 g) in CH₂Cl₂ (20 ml) and the mixture was stirred for 1 hour at room temperature. Work-up including silica gel chromatography gave 0.73 g 4-[2-chloro-3-(3-methyl-1,2-isoxazol-5-yl)-4-methylsulphonyl]benzoyl-1-ethyl-5-hydroxypyrazole, m.pt. 230-233 °C.

HERBICIDAL DATA

(I; R₃ = R₄ = Me; R₁ = Cl, R₂ = SO₂Me and R₃ = H) at 63 g/ha gave 100% control of *Echinochloa crus galli* and *Xanthium strumarium*, with no phytotoxicity towards wheat. (SCG) (51pp1839DwgNo.0/0)

SR-AU9336481 AU9646655 AU9988130 EP282944 EP629623 JP2173 JP515530 US4883022 US5468722 WO9318031 WO9626206

WO 9741117-A